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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/592,962	08/25/2008	David Sidransky	62933(71699)	4059
49383 7590 09/20/2010 EDWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874 POSTON, MA 02205			EXAMINER	
			GOLDBERG, JEANINE ANNE	
BOSTON, MA 02205			ART UNIT	PAPER NUMBER
			1634	
			MAIL DATE	DELIVERY MODE
			09/20/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summers	10/592,962	SIDRANSKY, DAVID				
Office Action Summary	Examiner	Art Unit				
	JEANINE A. GOLDBERG	1634				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)☐ Responsive to communication(s) filed on <u>25 Au</u>	iaust 2008					
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	/					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
dicescular describations with the problem direct Expanse Quayle, 1000 C.B. 11, 100 C.C. 210.						
Disposition of Claims						
4) Claim(s) <u>1,2,5,10,11,13,15,16,18,37-39,44,45,</u>	<u>51,52,58-63 and 69-73</u> is/are pen	ding in the application.				
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.) Claim(s) is/are allowed.					
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1,2,5,10,11,13,15,16,18,37-39,44,45,	51,52,58-63 <i>and</i> 69-73 are subjec	ct to restriction and/or election				
requirement.	,					
Application Papers						
9) The specification is objected to by the Examine						
/						
·- · · · · · · · · · · · · · · · · · ·	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) In the oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:	a)					
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

1. It is noted the claims filed 8/25/08 contain two Claim 52. The second Claim 52 is indicated as Cancelled. Clarification is required.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

3. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-2, 5, 10-11, 13, 15-16, 18, 37-39, 44-45, 51-52, 58-61, 70 drawn to a method for detecting a neoplasia using at least two promoters.

Group II, claims 62-63, 69, 71-73 drawn to a kit comprising primers and microarrays.

Election of Species

4. For Group I, Applicant is required to select a "second promoter" for examination. This application contains claims directed to multiple methods of detecting neoplasia using GSTP1 and one or more genes selected from 9 other genes. Each of the combinations of genes is independent or distinct because each of the genes is different. The genes have different locations, effects and sequences. In addition, these species are not obvious variants of each other based on the current record.

For Group II, Applicant is required to select a nucleic acid sequence.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, or a single grouping of patentably indistinct species, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species or a grouping of patentably indistinct species to be examined even though the requirement <u>may</u> be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species or grouping of patentably indistinct species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after

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the election, applicant must indicate which of these claims are readable on the elected species or grouping of patentably indistinct species.

Should applicant traverse on the ground that the species, or groupings of patentably indistinct species from which election is required, are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing them to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Lack of Unity Reasons

5. According to PCT Rule 13.2, unity of invention exists only when there is a shared same or corresponding special technical feature is a contribution over the prior art. The inventions listed in Group I do not relate to a single general inventive concept because the lack of the same or corresponding special technical feature. The prior art teaches a method for detecting neoplasia in a biological sample by quantifying the promoter methylation of at least two promoters wherein the increase promoter methylation relative to a reference indicates the presence of neoplasia. Additionally, the prior art teaches a primer for the promoter which allows for methylation detection.

Specifically Guldberg (US 2004/0048275, March 11, 2004) teaches APC promoter methylation is responsible for aberrant methylation of beta catenin in melanoma cells. Guldberg further teaches primers APC-MC-A and APC-MC-B which are used to detect methylation.

Sidransky (US 2003/0124600, July 3, 2003) teaches measuring the methylation of the promoter region of GSTPI. Sidransky teaches real-time methylation specific PCR to

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determine the ratio between the level of methylation of a promoter region relative to the relative level of methylation of a region of a reference gene.

Ji (US 2004/0016006, January 22, 2004) teaches methylation status of the RASSFi A and RASSF 1C promoter regions was determined by methylation-specific PCR to analyze lung cancer. Ji teaches that methylation-specific PCR.352 primers for the RASSFIA 5' promoter region. The primers disclosed detect the methylated form (para 348).

Cottrell (US 2004/0146868, July 29, 2004) teaches GSTPI markers within the promoter region that are useful for effectively distinguishing among benign hyperplasia of the prostate and different grades of prostate cancer.

Because the art teaches primers which allow for distinguishing methylation, there is no a contribution over the prior art. Further, the art teaches methylation in at least 2 promoters associated with neoplasias, thus, there is no contribution over the prior art.

Notice of Rejoinder

6. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product

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are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Jeanine Goldberg whose telephone number is (571) 272-0743. The examiner can normally be reached Monday-Friday from 7:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nguyen, can be reached on (571)272-0731.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The Central Fax Number for official correspondence is (571) 273-8300.

/Jeanine Goldberg/ Primary Examiner September 16, 2010